Unit : Chemistry L e a r n i n g E x p e c t a t i o n s

1. Recognize and test for the physical and chemical properties of various substances.
2. Identify common gasses based upon the results of prescribed gas tests.
3. Recognize some of the major advancements in atomic theory (particle theory).
4. Describe the Bohr-Rutherford model of the atom and the characteristics of protons, neutrons and electrons.
5. Draw Bohr-Rutherford diagrams for the first 20 atoms of the periodic table.
6. Distinguish between elements and compounds, atoms and molecules.
7. Demonstrate an understanding of the term "isotope".
8. Describe the characteristic physical and chemical properties of common elements and compounds.
9. Recognize the similarities between elements of the same family and the trends across periods of the periodic table.
10. Identify and use the symbols for common elements and the formulae for common compounds.

Unit Homework

Define each term below in your own words and provide an example or diagram when applicable.

matter	halogens	solubility
particle theory/atomic theory	noble gases	valence electrons
element symbol	clarity	stable octet
atomic mass unit	lustre	ionic bond
isotope	viscosity	ionic compound
periodic table	melting point/boiling point	molecular compound
chemical family/group	conductivity	covalent bond
period	ductility	chemical formula
alkali metals	malleability	Law of Conservation of mass
alkaline earth metals	combustibility	precipitate
	density	diatomic molecule

Compare: For each of the following groups of terms state at least one similarity and one difference between them. Ensure that your answer shows clearly your understanding of the terms.

a. atomic number and mass number
b. atoms and molecules
c. elements and compounds
d. proton, neutron and electron
e. metal, non-metal and metalloid
f. physical property and chemical property
g. qualitative property and quantitative property
h. observation and inference
i. neutral atom and ion
j. reactants and products
k. physical change and chemical change
l. pure substance and mixture

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Unit Test: _____